

**Linear Systems – Word Problems**

Directions: Please solve the following using a linear system by hand. You can use either the addition method or the substitution method to solve it by hand. Then solve it on ti-83 emulator using the instructions provided.

1. Suppose you have a piggy bank that only contains nickels and quarters. Suppose that the total number of coins in the bank is equal to 19. Suppose that the total value of these coins is \$3.35. How many of each coin is in the bank?

X = \_\_\_\_\_ Equation for the total number of coins ..... →

Y = \_\_\_\_\_ Equation for the total value of the coins..... →

Solve the linear system

There are \_\_\_\_\_ nickels in the bank and there are \_\_\_\_\_ quarters in the bank.

2. Suppose that you have a farm that only contains cows and chickens. Suppose that the total number of animals on the farm is 165. Suppose that the total number of legs on the farm is 474. How many of each animal are on the farm?

X = \_\_\_\_\_ Equation for number of animals ..... →

Y = \_\_\_\_\_ Equation for total number of legs..... →

Solve the linear system

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Directions: Please solve the following using a linear system by hand. You can use either the addition method or the substitution method to solve it by hand. Then solve it on ti-83 emulator using the instructions provided.

1. Suppose you have a piggy bank that only contains nickels and quarters. Suppose that the total number of coins in the bank is equal to 19. Suppose that the total value of these coins is \$2.75. How many of each coin is in the bank?

X = \_\_\_\_\_ Equation for the total number of coins ..... →

Y = \_\_\_\_\_ Equation for the total value of the coins..... →

Solve the linear system

There are \_\_\_\_\_ nickels in the bank and there are \_\_\_\_\_ quarters in the bank.

2. Suppose that you have a farm that only contains cows and chickens. Suppose that the total number of animals on the farm is 151. Suppose that the total number of legs on the farm is 484. How many of each animal are on the farm?

X = \_\_\_\_\_ Equation for number of animals ..... →

Y = \_\_\_\_\_ Equation for total number of legs..... →

Solve the linear system

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Directions: Please solve the following using a linear system by hand. You can use either the addition method or the substitution method to solve it by hand. Then solve it on ti-83 emulator using the instructions provided.

1. Suppose you have a piggy bank that only contains nickels and quarters. Suppose that the total number of coins in the bank is equal to 21. Suppose that the total value of these coins is \$3.05. How many of each coin is in the bank?

X = \_\_\_\_\_ Equation for the total number of coins ..... →

Y = \_\_\_\_\_ Equation for the total value of the coins..... →

Solve the linear system

There are \_\_\_\_\_ nickels in the bank and there are \_\_\_\_\_ quarters in the bank.

2. Suppose that you have a farm that only contains cows and chickens. Suppose that the total number of animals on the farm is 179. Suppose that the total number of legs on the farm is 554. How many of each animal are on the farm?

X = \_\_\_\_\_ Equation for number of animals ..... →

Y = \_\_\_\_\_ Equation for total number of legs..... →

Solve the linear system

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1. Suppose you have a piggy bank that only contains nickels and quarters. Suppose that the total number of coins in the bank is equal to 21. Suppose that the total value of these coins is \$2.25. How many of each coin is in the bank?

X = \_\_\_\_\_ Equation for the total number of coins ..... →

Y = \_\_\_\_\_ Equation for the total value of the coins..... →

Solve the linear system

There are \_\_\_\_\_ nickels in the bank and there are \_\_\_\_\_ quarters in the bank.

2. Suppose that you have a farm that only contains cows and chickens. Suppose that the total number of animals on the farm is 175. Suppose that the total number of legs on the farm is 542. How many of each animal are on the farm?

X = \_\_\_\_\_ Equation for number of animals ..... →

Y = \_\_\_\_\_ Equation for total number of legs..... →

Solve the linear system

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1. Suppose you have a piggy bank that only contains nickels and quarters. Suppose that the total number of coins in the bank is equal to 19. Suppose that the total value of these coins is \$2.15. How many of each coin is in the bank?

X = \_\_\_\_\_ Equation for the total number of coins ..... →

Y = \_\_\_\_\_ Equation for the total value of the coins..... →

Solve the linear system

There are \_\_\_\_\_ nickels in the bank and there are \_\_\_\_\_ quarters in the bank.

2. Suppose that you have a farm that only contains cows and chickens. Suppose that the total number of animals on the farm is 188. Suppose that the total number of legs on the farm is 570. How many of each animal are on the farm?

X = \_\_\_\_\_ Equation for number of animals ..... →

Y = \_\_\_\_\_ Equation for total number of legs..... →

Solve the linear system

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1. Suppose you have a piggy bank that only contains nickels and quarters. Suppose that the total number of coins in the bank is equal to 21. Suppose that the total value of these coins is \$4.05. How many of each coin is in the bank?

X = \_\_\_\_\_ Equation for the total number of coins ..... →

Y = \_\_\_\_\_ Equation for the total value of the coins..... →

Solve the linear system

There are \_\_\_\_\_ nickels in the bank and there are \_\_\_\_\_ quarters in the bank.

2. Suppose that you have a farm that only contains cows and chickens. Suppose that the total number of animals on the farm is 136. Suppose that the total number of legs on the farm is 384. How many of each animal are on the farm?

X = \_\_\_\_\_ Equation for number of animals ..... →

Y = \_\_\_\_\_ Equation for total number of legs..... →

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1. Suppose you have a piggy bank that only contains nickels and quarters. Suppose that the total number of coins in the bank is equal to 25. Suppose that the total value of these coins is \$3.25. How many of each coin is in the bank?

X = \_\_\_\_\_ Equation for the total number of coins ..... →

Y = \_\_\_\_\_ Equation for the total value of the coins..... →

Solve the linear system

There are \_\_\_\_\_ nickels in the bank and there are \_\_\_\_\_ quarters in the bank.

2. Suppose that you have a farm that only contains cows and chickens. Suppose that the total number of animals on the farm is 111. Suppose that the total number of legs on the farm is 334. How many of each animal are on the farm?

X = \_\_\_\_\_ Equation for number of animals ..... →

Y = \_\_\_\_\_ Equation for total number of legs..... →

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Directions: Please solve the following using a linear system by hand. You can use either the addition method or the substitution method to solve it by hand. Then solve it on ti-83 emulator using the instructions provided.

1. Suppose you have a piggy bank that only contains nickels and quarters. Suppose that the total number of coins in the bank is equal to 15. Suppose that the total value of these coins is \$2.55. How many of each coin is in the bank?

X = \_\_\_\_\_ Equation for the total number of coins ..... →

Y = \_\_\_\_\_ Equation for the total value of the coins..... →

Solve the linear system

There are \_\_\_\_\_ nickels in the bank and there are \_\_\_\_\_ quarters in the bank.

2. Suppose that you have a farm that only contains cows and chickens. Suppose that the total number of animals on the farm is 142. Suppose that the total number of legs on the farm is 440. How many of each animal are on the farm?

X = \_\_\_\_\_ Equation for number of animals ..... →

Y = \_\_\_\_\_ Equation for total number of legs..... →

Solve the linear system



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1. Suppose you have a piggy bank that only contains nickels and quarters. Suppose that the total number of coins in the bank is equal to 13. Suppose that the total value of these coins is \$2.05. How many of each coin is in the bank?

X = \_\_\_\_\_ Equation for the total number of coins ..... →

Y = \_\_\_\_\_ Equation for the total value of the coins..... →

Solve the linear system

There are \_\_\_\_\_ nickels in the bank and there are \_\_\_\_\_ quarters in the bank.

2. Suppose that you have a farm that only contains cows and chickens. Suppose that the total number of animals on the farm is 147. Suppose that the total number of legs on the farm is 398. How many of each animal are on the farm?

X = \_\_\_\_\_ Equation for number of animals ..... →

Y = \_\_\_\_\_ Equation for total number of legs..... →

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X = \_\_\_\_\_ Equation for the total number of coins ..... →

Y = \_\_\_\_\_ Equation for the total value of the coins..... →

Solve the linear system

There are \_\_\_\_\_ nickels in the bank and there are \_\_\_\_\_ quarters in the bank.

2. Suppose that you have a farm that only contains cows and chickens. Suppose that the total number of animals on the farm is 143. Suppose that the total number of legs on the farm is 464. How many of each animal are on the farm?

X = \_\_\_\_\_ Equation for number of animals ..... →

Y = \_\_\_\_\_ Equation for total number of legs..... →

Solve the linear system

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Directions: Please solve the following using a linear system by hand. You can use either the addition method or the substitution method to solve it by hand. Then solve it on ti-83 emulator using the instructions provided.

1. Suppose you have a piggy bank that only contains nickels and quarters. Suppose that the total number of coins in the bank is equal to 11. Suppose that the total value of these coins is \$1.55. How many of each coin is in the bank?

X = \_\_\_\_\_ Equation for the total number of coins ..... →

Y = \_\_\_\_\_ Equation for the total value of the coins..... →

Solve the linear system

There are \_\_\_\_\_ nickels in the bank and there are \_\_\_\_\_ quarters in the bank.

2. Suppose that you have a farm that only contains cows and chickens. Suppose that the total number of animals on the farm is 151. Suppose that the total number of legs on the farm is 472. How many of each animal are on the farm?

X = \_\_\_\_\_ Equation for number of animals ..... →

Y = \_\_\_\_\_ Equation for total number of legs..... →

Solve the linear system

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1. Suppose you have a piggy bank that only contains nickels and quarters. Suppose that the total number of coins in the bank is equal to 17. Suppose that the total value of these coins is \$2.85. How many of each coin is in the bank?

X = \_\_\_\_\_ Equation for the total number of coins ..... →

Y = \_\_\_\_\_ Equation for the total value of the coins..... →

Solve the linear system

There are \_\_\_\_\_ nickels in the bank and there are \_\_\_\_\_ quarters in the bank.

2. Suppose that you have a farm that only contains cows and chickens. Suppose that the total number of animals on the farm is 117. Suppose that the total number of legs on the farm is 364. How many of each animal are on the farm?

X = \_\_\_\_\_ Equation for number of animals ..... →

Y = \_\_\_\_\_ Equation for total number of legs..... →

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X = \_\_\_\_\_ Equation for the total number of coins ..... →

Y = \_\_\_\_\_ Equation for the total value of the coins..... →

Solve the linear system

There are \_\_\_\_\_ nickels in the bank and there are \_\_\_\_\_ quarters in the bank.

2. Suppose that you have a farm that only contains cows and chickens. Suppose that the total number of animals on the farm is 126. Suppose that the total number of legs on the farm is 370. How many of each animal are on the farm?

X = \_\_\_\_\_ Equation for number of animals ..... →

Y = \_\_\_\_\_ Equation for total number of legs..... →

Solve the linear system

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1. Suppose you have a piggy bank that only contains nickels and quarters. Suppose that the total number of coins in the bank is equal to 27. Suppose that the total value of these coins is \$4.35. How many of each coin is in the bank?

X = \_\_\_\_\_ Equation for the total number of coins ..... →

Y = \_\_\_\_\_ Equation for the total value of the coins..... →

Solve the linear system

There are \_\_\_\_\_ nickels in the bank and there are \_\_\_\_\_ quarters in the bank.

2. Suppose that you have a farm that only contains cows and chickens. Suppose that the total number of animals on the farm is 198. Suppose that the total number of legs on the farm is 594. How many of each animal are on the farm?

X = \_\_\_\_\_ Equation for number of animals ..... →

Y = \_\_\_\_\_ Equation for total number of legs..... →

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X = \_\_\_\_\_ Equation for the total number of coins ..... →

Y = \_\_\_\_\_ Equation for the total value of the coins..... →

Solve the linear system

There are \_\_\_\_\_ nickels in the bank and there are \_\_\_\_\_ quarters in the bank.

2. Suppose that you have a farm that only contains cows and chickens. Suppose that the total number of animals on the farm is 134. Suppose that the total number of legs on the farm is 380. How many of each animal are on the farm?

X = \_\_\_\_\_ Equation for number of animals ..... →

Y = \_\_\_\_\_ Equation for total number of legs..... →

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X = \_\_\_\_\_ Equation for the total number of coins ..... →

Y = \_\_\_\_\_ Equation for the total value of the coins..... →

Solve the linear system

There are \_\_\_\_\_ nickels in the bank and there are \_\_\_\_\_ quarters in the bank.

2. Suppose that you have a farm that only contains cows and chickens. Suppose that the total number of animals on the farm is 137. Suppose that the total number of legs on the farm is 414. How many of each animal are on the farm?

X = \_\_\_\_\_ Equation for number of animals ..... →

Y = \_\_\_\_\_ Equation for total number of legs..... →

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X = \_\_\_\_\_ Equation for the total number of coins ..... →

Y = \_\_\_\_\_ Equation for the total value of the coins..... →

Solve the linear system

There are \_\_\_\_\_ nickels in the bank and there are \_\_\_\_\_ quarters in the bank.

2. Suppose that you have a farm that only contains cows and chickens. Suppose that the total number of animals on the farm is 117. Suppose that the total number of legs on the farm is 360. How many of each animal are on the farm?

X = \_\_\_\_\_ Equation for number of animals ..... →

Y = \_\_\_\_\_ Equation for total number of legs..... →

Solve the linear system

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1. Suppose you have a piggy bank that only contains nickels and quarters. Suppose that the total number of coins in the bank is equal to 21. Suppose that the total value of these coins is \$3.45. How many of each coin is in the bank?

X = \_\_\_\_\_ Equation for the total number of coins ..... →

Y = \_\_\_\_\_ Equation for the total value of the coins..... →

Solve the linear system

There are \_\_\_\_\_ nickels in the bank and there are \_\_\_\_\_ quarters in the bank.

2. Suppose that you have a farm that only contains cows and chickens. Suppose that the total number of animals on the farm is 165. Suppose that the total number of legs on the farm is 460. How many of each animal are on the farm?

X = \_\_\_\_\_ Equation for number of animals ..... →

Y = \_\_\_\_\_ Equation for total number of legs..... →

Solve the linear system

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Directions: Please solve the following using a linear system by hand. You can use either the addition method or the substitution method to solve it by hand. Then solve it on ti-83 emulator using the instructions provided.

1. Suppose you have a piggy bank that only contains nickels and quarters. Suppose that the total number of coins in the bank is equal to 23. Suppose that the total value of these coins is \$3.55. How many of each coin is in the bank?

X = \_\_\_\_\_ Equation for the total number of coins ..... →

Y = \_\_\_\_\_ Equation for the total value of the coins..... →

Solve the linear system

There are \_\_\_\_\_ nickels in the bank and there are \_\_\_\_\_ quarters in the bank.

2. Suppose that you have a farm that only contains cows and chickens. Suppose that the total number of animals on the farm is 148. Suppose that the total number of legs on the farm is 412. How many of each animal are on the farm?

X = \_\_\_\_\_ Equation for number of animals ..... →

Y = \_\_\_\_\_ Equation for total number of legs..... →

Solve the linear system

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X = \_\_\_\_\_ Equation for the total number of coins ..... →

Y = \_\_\_\_\_ Equation for the total value of the coins..... →

Solve the linear system

There are \_\_\_\_\_ nickels in the bank and there are \_\_\_\_\_ quarters in the bank.

2. Suppose that you have a farm that only contains cows and chickens. Suppose that the total number of animals on the farm is 156. Suppose that the total number of legs on the farm is 510. How many of each animal are on the farm?

X = \_\_\_\_\_ Equation for number of animals ..... →

Y = \_\_\_\_\_ Equation for total number of legs..... →

Solve the linear system

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1. Suppose you have a piggy bank that only contains nickels and quarters. Suppose that the total number of coins in the bank is equal to 13. Suppose that the total value of these coins is \$1.65. How many of each coin is in the bank?

X = \_\_\_\_\_ Equation for the total number of coins ..... →

Y = \_\_\_\_\_ Equation for the total value of the coins..... →

Solve the linear system

There are \_\_\_\_\_ nickels in the bank and there are \_\_\_\_\_ quarters in the bank.

2. Suppose that you have a farm that only contains cows and chickens. Suppose that the total number of animals on the farm is 135. Suppose that the total number of legs on the farm is 392. How many of each animal are on the farm?

X = \_\_\_\_\_ Equation for number of animals ..... →

Y = \_\_\_\_\_ Equation for total number of legs..... →

Solve the linear system

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Directions: Please solve the following using a linear system by hand. You can use either the addition method or the substitution method to solve it by hand. Then solve it on ti-83 emulator using the instructions provided.

1. Suppose you have a piggy bank that only contains nickels and quarters. Suppose that the total number of coins in the bank is equal to 25. Suppose that the total value of these coins is \$3.05. How many of each coin is in the bank?

X = \_\_\_\_\_ Equation for the total number of coins ..... →

Y = \_\_\_\_\_ Equation for the total value of the coins..... →

Solve the linear system

There are \_\_\_\_\_ nickels in the bank and there are \_\_\_\_\_ quarters in the bank.

2. Suppose that you have a farm that only contains cows and chickens. Suppose that the total number of animals on the farm is 101. Suppose that the total number of legs on the farm is 302. How many of each animal are on the farm?

X = \_\_\_\_\_ Equation for number of animals ..... →

Y = \_\_\_\_\_ Equation for total number of legs..... →

Solve the linear system

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1. Suppose you have a piggy bank that only contains nickels and quarters. Suppose that the total number of coins in the bank is equal to 17. Suppose that the total value of these coins is \$2.65. How many of each coin is in the bank?

X = \_\_\_\_\_ Equation for the total number of coins ..... →

Y = \_\_\_\_\_ Equation for the total value of the coins..... →

Solve the linear system

There are \_\_\_\_\_ nickels in the bank and there are \_\_\_\_\_ quarters in the bank.

2. Suppose that you have a farm that only contains cows and chickens. Suppose that the total number of animals on the farm is 158. Suppose that the total number of legs on the farm is 436. How many of each animal are on the farm?

X = \_\_\_\_\_ Equation for number of animals ..... →

Y = \_\_\_\_\_ Equation for total number of legs..... →

Solve the linear system

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Y = \_\_\_\_\_ Equation for the total value of the coins..... →

Solve the linear system

There are \_\_\_\_\_ nickels in the bank and there are \_\_\_\_\_ quarters in the bank.

2. Suppose that you have a farm that only contains cows and chickens. Suppose that the total number of animals on the farm is 175. Suppose that the total number of legs on the farm is 516. How many of each animal are on the farm?

X = \_\_\_\_\_ Equation for number of animals ..... →

Y = \_\_\_\_\_ Equation for total number of legs..... →

Solve the linear system



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X = \_\_\_\_\_ Equation for the total number of coins ..... →

Y = \_\_\_\_\_ Equation for the total value of the coins..... →

Solve the linear system

There are \_\_\_\_\_ nickels in the bank and there are \_\_\_\_\_ quarters in the bank.

2. Suppose that you have a farm that only contains cows and chickens. Suppose that the total number of animals on the farm is 146. Suppose that the total number of legs on the farm is 410. How many of each animal are on the farm?

X = \_\_\_\_\_ Equation for number of animals ..... →

Y = \_\_\_\_\_ Equation for total number of legs..... →

Solve the linear system

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Directions: Please solve the following using a linear system by hand. You can use either the addition method or the substitution method to solve it by hand. Then solve it on ti-83 emulator using the instructions provided.

1. Suppose you have a piggy bank that only contains nickels and quarters. Suppose that the total number of coins in the bank is equal to 29. Suppose that the total value of these coins is \$4.45. How many of each coin is in the bank?

X = \_\_\_\_\_ Equation for the total number of coins ..... →

Y = \_\_\_\_\_ Equation for the total value of the coins..... →

Solve the linear system

There are \_\_\_\_\_ nickels in the bank and there are \_\_\_\_\_ quarters in the bank.

2. Suppose that you have a farm that only contains cows and chickens. Suppose that the total number of animals on the farm is 159. Suppose that the total number of legs on the farm is 496. How many of each animal are on the farm?

X = \_\_\_\_\_ Equation for number of animals ..... →

Y = \_\_\_\_\_ Equation for total number of legs..... →

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Y = \_\_\_\_\_ Equation for the total value of the coins..... →

Solve the linear system

There are \_\_\_\_\_ nickels in the bank and there are \_\_\_\_\_ quarters in the bank.

2. Suppose that you have a farm that only contains cows and chickens. Suppose that the total number of animals on the farm is 175. Suppose that the total number of legs on the farm is 528. How many of each animal are on the farm?

X = \_\_\_\_\_ Equation for number of animals ..... →

Y = \_\_\_\_\_ Equation for total number of legs..... →

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Y = \_\_\_\_\_ Equation for the total value of the coins..... →

Solve the linear system

There are \_\_\_\_\_ nickels in the bank and there are \_\_\_\_\_ quarters in the bank.

2. Suppose that you have a farm that only contains cows and chickens. Suppose that the total number of animals on the farm is 153. Suppose that the total number of legs on the farm is 498. How many of each animal are on the farm?

X = \_\_\_\_\_ Equation for number of animals ..... →

Y = \_\_\_\_\_ Equation for total number of legs..... →

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Y = \_\_\_\_\_ Equation for the total value of the coins..... →

Solve the linear system

There are \_\_\_\_\_ nickels in the bank and there are \_\_\_\_\_ quarters in the bank.

2. Suppose that you have a farm that only contains cows and chickens. Suppose that the total number of animals on the farm is 162. Suppose that the total number of legs on the farm is 518. How many of each animal are on the farm?

X = \_\_\_\_\_ Equation for number of animals ..... →

Y = \_\_\_\_\_ Equation for total number of legs..... →

Solve the linear system

**Linear Systems – Word Problems**

Directions: Please solve the following using a linear system by hand. You can use either the addition method or the substitution method to solve it by hand. Then solve it on ti-83 emulator using the instructions provided.

1. Suppose you have a piggy bank that only contains nickels and quarters. Suppose that the total number of coins in the bank is equal to 17. Suppose that the total value of these coins is \$2.05. How many of each coin is in the bank?

X = \_\_\_\_\_ Equation for the total number of coins ..... →

Y = \_\_\_\_\_ Equation for the total value of the coins..... →

Solve the linear system

There are \_\_\_\_\_ nickels in the bank and there are \_\_\_\_\_ quarters in the bank.

2. Suppose that you have a farm that only contains cows and chickens. Suppose that the total number of animals on the farm is 141. Suppose that the total number of legs on the farm is 416. How many of each animal are on the farm?

X = \_\_\_\_\_ Equation for number of animals ..... →

Y = \_\_\_\_\_ Equation for total number of legs..... →

Solve the linear system